| Date: Subject:                                 |
|--|
| Sheet 1  |
| Determine the type of the following            |
| PDE:   |
|  |
| a Uxx + x uy = y                               |
| الطرف الاعتمدالة في المرك                      |
| linear   |
| BUUx - 2 xyUy = 6.  Quasi Linear UUx           |
| - Quasi Linear UUX                             |
| = $=$ $=$ $=$ $=$ $=$ $=$ $=$ $=$ $=$          |
| 1 is de degree 1 42x                           |
| non Linear                                     |
|  |
| (d) Uxxx + 2 Uxxyy + Uyyyy = 0                 |
| Linear   |
| @Uxx + 2Uxy + Uyy = Sin X                      |
| الطرف/ين دالرق لا                              |
| a Linear ci g citales, 5                       |
| DUXXX + Uxyy + Log U = 0                       |
| (agu   |
| = Semilinear                                   |
| $\frac{2}{3} U^2_{XX} + U^2_{X} + Sin U = e^y$ |
| a non linear                                   |
| Scanned by CamScanner                          |
| Coarmon by Camocamici                          |

| Date: Subject:   |
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| hu, +Ux, UUxxx = 0   |
| U savino UXXX  |
| Quasi Linear   |
| (i) U+ + UUx + Uxxx = 0  |
| O CIT + COOK - NKK   |
| almost Linear  |
|  |
| Show that $u = F(xy)$ where $F$ is arbitrary diffrentiable Function.  Prove: $X U_X - Y U_Y = 0$ |
| arbitrary differentiable Function.   |
| Orace Y II. 4 Uy = 0   |
| JOUR A CONTRACTOR  |
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